

REPORT ON TWO DAYWORKSHOP ON ROBOTICS & ITS APPLICATIONS

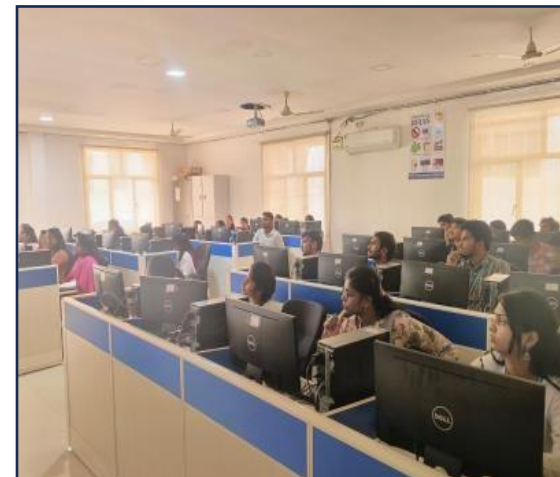
Department of ECE, MRCE in association with VERTULONIX, Hyderabad, organized a two-day workshop on “**ROBOTICS & ITS APPLICATIONS**” on 18-19 December 2023. The **VERTULONIX** arranges the various kinds of Workshops on continuous basis to enhance student's practical&technical skill and to make them compatible with industry.

The workshop was aimed to acquire basic knowledge on Arduino &Robotics & its designing. Almost 91 students from II& III Year ECE members of our college have participated in the workshop.



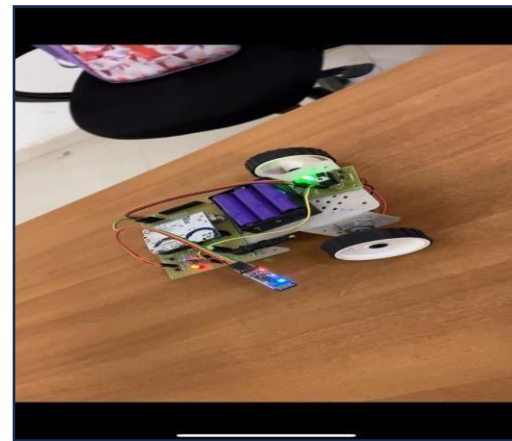
Day1:

- Introduction about ArduinoUNO.
- Explained about robotics and its application in our day-to-day life.
- Explained basic programs which are performed to dum pin Arduino for them ovement of robots.
- Developed the programsi.e.,Software part in The process of designing Robot.
- Dumping a code to the motor through Arduino IDE software which helps them to moves in a particular direction.
- The program Was checked through Software module of Robot In proteus software.



Day-2:

- It was all about hardware part i.e., the hardware part in the process of designing a robot.
- Dumping program into Arduino, connections of motors to motor driver then Arduino was done. (live, car robot)
- The car robot was finally connected to Bluetooth module and controlled by mobile phones



Conclusion of the Workshop: -

Gained basic knowledge on Arduino and designing basic structure of Robot.

Workshop Outcomes:

- Introduction to Robotics & Robotics Systems.
- Understand about various types of sensory devices their working and applications
- Understanding more about microcontrollers.
- Understanding how Arduino, Raspberry Pi and microcontroller are involved in Robotics.
- Understanding Programming in Arduino